

1977 INSPECTIONS OF


GOVERNMENT PUBLICATIONS
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FERTILIZER PESTICIDE AND FEED PRODUCTS

J. Gordon Hanna



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1977 Inspections of
Fertilizer, Pesticide and Feed Products

Data obtained by chemical analysis of officially collected samples of commercial feeds, fertilizers and pesticide formulations are contained in this report. The tables show the number of samples from each manufacturer (in parenthesis), the number of determinations made for each guaranteed ingredient, the number of deficiencies, and the average percent of claims for each component.

The deficiencies noted for feed samples are based on the permitted variations recommended by the Association of American Feed Control Officials, the investigational allowances for fertilizers are those of the Association of American Plant Food Control Officials, and the permissive guarantee variations suggested by the Association of American Pesticide Control Officials are used for pesticide formulations.

Data for 422 samples of feed representing 51 manufacturers, 359 samples of fertilizer representing 46 manufacturers and 263 samples of pesticide representing 52 manufacturers are summarized.

The feed and fertilizer laws are administered by the Commissioner of Agriculture. The pesticide law is under the direction of the Commissioner of Environmental Protection.

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J. Gordon Hanna, Chief Chemist

Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claim		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway (35)	35	35	35	105	3	0	0	108	142	63
Allen Products (16)	16	16	16	48	2	1	0	115	148	34
Allied Mills (4)	4	4	4	12	2	0	0	103	138	58
The Amburgo Co. (1)	1	1	1	3	0	0	0	99	160	61
Armitage Bros. (1)	1	1	1	3	1	0	0	84	100	36
A & R Pet Food (12)	12	12	12	36	5	0	0	99	134	49
Beacon Milling (6)	6	6	6	18	0	1	0	111	112	78
Binzo Limited (2)	2	2	2	6	1	0	0	97	89	78
Bloomfield Farmers Exchange (2)	2	2	2	6	0	0	0	109	103	70
Cadillac Pet Foods (8)	8	8	8	24	1	0	0	111	147	65
Calo Pet Foods (2)	2	2	2	6	0	0	0	120	162	41
Carnation Co. (9)	9	9	9	27	0	0	0	112	169	44
Central Conn. Co-op. (20)	20	20	20	60	3	0	0	103	110	64
Jim Dandy (2)	2	2	2	6	0	0	0	154	246	50
Derby Feed Co. (1)	1	1	1	3	0	0	0	100	130	36
John W. Eshelman & Son (18)	18	18	18	54	0	0	0	106	123	66
Federated Foods (4)	4	4	4	12	1	0	0	105	127	74
Foster Canning Co. (12)	12	12	12	36	0	0	0	108	145	58
General Foods Corp. (8)	8	8	8	24	0	0	0	123	153	28
Hartz Mountain (3)	3	3	3	9	1	0	0	106	126	50
Jerky Treats (3)	3	3	3	9	0	0	0	105	266	17
Kal Kan (12)	12	12	12	36	0	0	0	113	131	27
K & L Feed (4)	4	4	4	12	1	0	0	110	108	74
Landon Co. (2)	2	2	2	6	0	0	0	119	124	48
The Libner Corp. (3)	3	3	3	9	1	0	0	103	141	40
Lipton Pet Food (3)	3	3	3	9	0	0	0	112	144	96
Multiproducts, Inc. (1)	1	1	1	3	1	0	0	80	98	62
Nabisco (5)	5	5	5	15	1	0	0	109	147	49
National Pet Food Corp. (5)	5	5	5	15	0	0	0	104	149	49
Neptune Packing Co. (1)	1	1	1	3	0	0	0	109	140	36
New England Fish Co. (3)	3	3	3	9	0	0	0	116	154	65
October Farms (1)	1	1	1	3	1	0	0	93	117	88
Old Mother Hubbard (1)	1	1	1	3	0	0	0	123	114	32
Perk Foods Co. (9)	9	9	9	27	1	1	0	109	148	79

Feed Manufacturer	<u>Number of Claims</u>				<u>Number Not Met</u>			<u>Average % of Claims</u>		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Quaker Oats Co. (3)	3	3	3	9	0	0	0	115	142	68
Ralston Purina Co. (18)	18	18	18	54	0	0	0	113	156	50
The Reward Co. (3)	3	3	3	9	0	0	0	102	227	20
Rytman Grain Co. (4)	4	4	4	12	0	0	1	107	105	96
Shopwell, Inc. (11)	11	11	11	33	2	0	0	110	181	53
Star Kist Foods (20)	20	20	20	60	3	0	0	111	249	35
Strongheart Products (1)	1	1	1	3	0	0	0	107	166	128
Sun Harbor Industries (1)	1	1	1	3	0	0	0	110	152	16
Topco Associates (9)	9	9	9	27	1	1	0	121	146	41
Triumph Pet Industries (5)	5	5	5	15	2	0	0	111	192	57
United Co-op Farmers (20)	20	20	20	60	0	1	0	107	118	69
Wafcol Ltd. (1)	1	1	1	3	0	0	0	118	100	111
Wakefern Food (32)	32	32	32	96	3	2	0	114	137	49
Wm. S. Warren & Son (7)	7	7	7	21	0	0	0	105	135	61
H. K. Webster (62)	62	62	62	186	3	3	1	105	124	73
Whitney Fidalgo Sea Foods (5)	5	5	5	15	1	0	0	119	227	44
Wildlife Products (1)	1	1	1	3	0	0	0	101	139	27
(422)	422	422	422	1266	41	10	2	109	145	57

Percent of claims deficient: 4.2

Fertilizer Manufacturer	Number of Claims			Number Not Met		Average % of Claim	
	N	P ₂ O ₅ ⁺ K ₂ O	Total	N	P ₂ O ₅ ⁺ K ₂ O	N	P ₂ O ₅ ⁺ K ₂ O
Agrico (10)	10	20	30	3	6	114.1	113.5
Agricultural Products (4)	4	8	12	1	1	97.7	102.5
Agway (42)	42	82	124	3	6	102.3	110.6
Atlas Fish Fertilizer (1)	1	2	3	0	0	104.8	157.0
Black Leaf Products (1)	1	2	3	0	0	108.3	110.6
Bristol Nurseries (1)	1	2	3	1	1	92.0	91.6
Cadwell and Jones (22)	21	40	61	9	12	102.0	106.5
Peter Cascio (2)	2	4	6	0	0	113.2	121.2
Chevron (16)	16	32	48	0	0	105.7	106.7
Ciba-Geigy (1)	0	0	0	-	-	-	-
Ross Daniels (3)	3	6	9	0	0	136.8	112.5
Delta Earth (1)	1	1	2	0	0	94.7	130.0
Downy Hollow Farm (3)	3	6	9	0	0	123.8	99.6
The Dramm Co. (1)	1	2	3	0	0	111.4	134.9
Eastman Gelatine (1)	1	0	1	0	-	227.9	-
The Espoma Co. (4)	4	8	12	0	1	134.9	121.4
Faesy and Besthoff (4)	4	3	7	0	0	175.8	150.8
Fer-Mel (1)	1	2	3	1	0	87.2	103.8
Graco Fertilizer Co. (1)	0	0	0	-	-	-	-
Chas. C. Hart (6)	6	12	18	2	1	113.6	103.3
Heritage House Products (9)	9	18	27	0	2	106.6	113.5
A. H. Hoffman (3)	3	6	9	1	2	103.2	103.3
International Spike (1)	1	2	3	0	0	108.5	116.4
Just Right Dist. Assoc. (1)	1	2	3	0	0	132.8	109.3
Kerr-McGee (64)	59	117	176	10	21	103.8	104.2
Lebanon (21)	21	42	63	2	2	107.5	109.6
Leeming Div., Pfizer (1)	1	2	3	0	0	130.0	113.9
Leisure Group (1)	1	2	3	0	0	99.0	100.8
Loft's (1)	1	2	3	0	0	106.3	105.1
3M (7)	7	14	21	0	0	106.6	105.4
Nassau Gardens (12)	12	24	36	0	4	115.7	110.2

Fertilizer Manufacturer	Number of Claims			Number Not Met		Average % of Claims	
	N	P ₂ O ₅ + K ₂ O	Total	N	P ₂ O ₅ + K ₂ O	N	P ₂ O ₅ + K ₂ O
Old Fox (19)	18	33	51	5	12	98.5	107.5
Organic Compost (1)	1	2	3	0	0	100.0	207.0
Robert B. Peters (19)	19	37	56	0	1	108.3	112.7
Plantabbs Corp. (3)	3	6	9	0	0	106.2	103.8
Premier Brands (2)	2	4	6	0	0	104.4	107.8
Rapid Gro Corp. (1)	1	2	3	0	0	101.0	102.0
O. M. Scott (21)	20	40	60	0	1	102.2	112.4
Sears (4)	4	8	12	0	1	122.2	127.0
Sewerage Comm. of Mil. (2)	2	2	4	0	0	107.3	138.0
Sierra Chemical Co. (3)	3	6	9	0	1	101.7	102.9
Southern Cotton Oil Co. (1)	1	0	1	0	-	105.8	
Sterns Nurseries (4)	4	8	12	0	0	104.6	110.8
Sudbury Laboratory (2)	1	1	2	0	0	106.6	102.3
Swift Agri. Chemical Co. (23)	23	46	69	5	1	99.8	127.1
Warren's Turf Nursery (1)	1	2	3	0	0	107.6	117.3
(352)	341	660	1001	43	76	106.8	110.6

Percent of claims deficient: 11.9

Secondary and Minor Elements

Manufacturer	Element Claimed	Number Of Claims	Number Not Met	Average % Of Claims
Agway (1)	Boron	1	0	150
Delta Earth (3)	Copper	3	1	70
	Iron	3	0	143
	Manganese	3	0	132
	Zinc	3	0	128
Kerr-McGee (1)	Aluminum	1	0	116
Old Fox (1)	Magnesium	1	0	100
Sterns Nursery (1)	Iron	1	0	100
(7)		16	1	118

Percent of claims deficient: 6.3

Mixed Fertilizer Distribution

July 1, 1976 - June 30, 1977

<u>Grade</u>	<u>Tons</u>
0-10-40	93
0-15-30	437
0-20-20	30
4-10-6	23
5-10-5	717
5-10-10	3,216
7-7-7	42
10-6-4	2,788
10-10-10	6,947
10-20-20	684
12-4-8	77
15-15-15	733
15-30-15	8
18-6-6	24
20-4-8	310
20-5-10	420
20-10-5	69
20-10-10	407
20-20-20	21
25-5-10	176
Miscellaneous*	<u>28,643</u>
Total	45,865

*Small amounts or reported by
fewer than three manufacturers

Tonnages of Fertilizer Materials and Mixed
Fertilizers Purchased During the Period of
July 1, 1976 - June 30, 1977

Chemical Nitrogen	
Ammonium nitrate	806
Ammonium sulfate	12
Calcium nitrate	136
Nitrate of soda	100
Urea	4,568
Urea - formaldehyde	27
Nitrogen solutions (30%N)	<u>450</u>
	6,099
Organics	
Castor pomace	264
Cottonseed meal	139
Dried blood	3
Dried manures	3,149
Linseed meal	314
Sewage sludge	1,540
Soybean meal	<u>76</u>
	5,485
Phosphates	
Ammonium phosphate	1,662
Bonemeal	16
Diammonium phosphate	44
Dicalcium phosphate	1,890
Phosphate rock	18
Superphosphate 20%	193
Superphosphate 40%	<u>716</u>
	4,539
Potash	
Carbonate of potash	31
Muriate of potash	649
Nitrate of potash	87
Sulfate of potash	16
Sulfate of potash - magnesia	24
Other (44%K)	<u>7</u>
	814
Secondary and micronutrients	
Borax	19
Aluminum sulfate	2
Gypsum	34
Zinc sulfate	<u>2</u>
	57
Total	16,994
Commercial mixtures	<u>45,865</u>
Total	62,859

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Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Agricultural Products Co. (2)	Captan	1	0	98
	Carbaryl	1	0	98
	Malathion	1	0	125
	Methoxychlor	1	0	96
	Sulfur	1	0	104
	Zineb	1	0	113
Agway, Inc. (13)	Ammonium sulfamate	1	0	102
	Captan	3	0	100
	Carbaryl	3	0	101
	Chlorpyrifos	1	0	103
	Diazinon	2	0	104
	Ferbam	1	0	101
	Folpet	3	0	103
	Kelthane	1	0	95
	Malathion	3	0	99
	Methoxychlor	2	0	97
	Pentachlorophenol	1	0	102
	Piperonyl butoxide	2	0	98
	Pyrethrins	1	0	96
	Rotenone	1	0	97
Amchem Products, Inc. (8)	Amitrol	2	0	112
	2,4-D	1	0	99
	2,4-D+dicamba	2	0	106
	2,4-D+2,4,5-T	1	0	102
	Methanearsonate	1	0	96
	Silvex	1	0	100
American Cyanamid Co. (1)	Dimethoate	1	0	109
American Fluoride Corp. (1)	Diazinon	2	0	103
Black Leaf Products Co. (12)	Benzene hexachloride	1	0	101
	Captan	1	0	102
	Copper salts	1	0	100
	2,4-D+dicamba	1	0	120
	Kelthane	3	0	100
	Malathion	3	0	99
	Maneb	1	0	98
	Meta-Systox-R	1	0	97
	Methoxychlor	4	0	104
	Nicotine	1	0	99
Bonide Chemical Co. (36)	Pyrethrins	1	0	107
	Ammonium sulfamate	2	0	101
	Aspon	2	0	104
	Benzene hexachloride	1	0	102
	Beta-hydroxy-beta-thiocyanodiethyl ether	1	0	103

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Bonide Chemical Co. (36)	Captan	4	0	98
	Carbaryl	8	0	101
	Chlordane	3	0	106
	Chlorpyrifos	1	0	96
	Copper sulfide	1	0	99
	2,4-D+silvex	2	0	107
	Diazinon	2	0	107
	DiSyston	1	0	95
	Eptam	1	1	11
	Folpet	2	0	104
	Imidan	1	0	101
	Karathane	1	0	98
	Kelthane	3	0	104
	Malathion	8	0	109
	Maneb	1	0	110
	Methoxychlor	4	0	102
	N-Octylbicycloheptene dicarboximide	1	0	107
	Piperonyl butoxide	2	0	110
	Pyrethrins	2	0	99
	Resmethrin	2	0	130
	Rotenone	1	0	102
	Ryania Specioso	1	0	100
	Tetramethrin	2	0	96
Boyle-Midway, Inc. (2)	Allethrin	1	0	100
	2-(Hydroxyethyl-n- octyl) sulfide	1	0	95
	Isobornylthiocyano- acetate	1	0	100
	Methoxychlor	1	0	98
	N-Octylbicycloheptene dicarboximide	1	0	90
	Resmethrin	1	0	125
Chevron (43)	Acephate	1	0	105
	Ammonium sulfamate	1	0	104
	Baygon	1	0	110
	Captan	4	0	105
	Carbaryl	6	0	104
	2,4-D+2-(2-methyl-4- chlorophenoxy) propi- onic acid	1	0	109
	2,4-D+silvex	1	0	97
	Diazinon	5	0	104
	2,2-Dichloropropionic acid	1	0	100
	Dimethyltetrachlor- terephthalate	1	0	99

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Chevron (43)	3,5-Dimethyl-4 (methylthio)- phenylmethyl carbamate	1	0	120
	Dodecylammonium- methanearsonate+			
	octylammoniummethyl- arsonate	1	0	107
	Dyrene	1	0	101
	Folpet	3	0	102
	Hydroxyethyl-n-octyl sulfide	1	0	99
	Kelthane	2	0	99
	Lindane	2	0	100
	Malathion	3	0	105
	Metaldehyde	1	0	107
	Methoxychlor	3	0	99
	Paradichlorobenzene	1	0	104
	Piperonyl butoxide	4	0	112
	Prometone	1	0	96
	Pyrethrins	4	0	104
	Resmethrin	4	0	100
	Rotenone	1	0	102
	Silvex	1	0	96
	Sulfur	1	0	102
Ciba-Geigy (7)	Diazinon	5	0	106
	Piperonyl butoxide	1	0	139
	Prometone	1	0	101
	Pyrethrins	1	0	106
	Simazine	1	0	102
Cutter Animal Health Labs. (1)	Co-Ral	1	0	108
The d-Con Co., Inc. (7)	d-trans-Allethrin	3	0	109
	N,N-Diethyl-n-toluamide	1	0	107
	2-Hydroxyethyl-n-octyl sulfide	2	0	105
	Methoxychlor	1	0	98
	N-Octylbicycloheptene dicarboximide	5	0	105
	Piperonyl butoxide	5	0	109
	Pyrethrins	2	0	102
Dragon Chemical Corp. (1)	Chlordane	1	0	104
E. I. duPont (1)	Benomyl	1	0	104
Essex Chemical Corp. (1)	N-Octylbicycloheptene dicarboximide	1	0	107
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	100

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Faesy and Besthoff (1)	Eptam	1	0	104
Farmingdale Garden Labs. (7)	Copper	1	0	103
	2,4-D	1	0	106
	Kelthane	1	0	111
	Malathion	2	0	104
	Methanearsonate	1	0	99
	Methoxychlor	1	0	107
	Methylnonyl ketone	1	0	99
	Silvex	1	0	96
Farnum Companies (5)	Dimethyl (2,2,2-trichloro-1-hydroxyethyl)-phosphonate	1	0	100
	Di-n-propylisocinchomerate	1	0	95
	Piperonyl butoxide	4	0	99
	Pyrethrins	4	0	107
	Rotenone	1	0	105
FMC Corp. (1)	Chlorpyrifos	1	0	102
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	99
Gulf Oil Co. (1)	Allethrin	1	0	125
	Resmethrin	1	0	98
The Chas. C. Hart Seed Co. (2)	2,4-D	2	0	110
Lethelin Products Co., Inc. (1)	Lindane	1	0	102
Nip-co Manufacturing Co. (1)	Litharge	1	0	113
	Potassium nitrate	1	0	103
	Sulfur	1	0	101
Nott Manufacturing Co. (1)	Warfarin	1	0	112
The Parrott Chemical Co. (1)	Captan	1	0	99
PBI Garden (9)	Carbaryl	1	0	104
	2,4-D+2-(2-methyl-4-chlorophenoxy) propionic acid+dicamba	1	0	111
	Dursban	1	0	100
	Malathion	1	0	98
	Methylnonyl ketone	1	0	103
	Prometone	1	0	106
	Piperonyl butoxide	1	0	116
	Pyrethrins	1	0	110

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
PBI Garden (9)	Resmethrin	1	0	107
	Rotenone	1	0	100
Plant Marvel Laboratories (1)	Piperonyl butoxide	1	0	105
	Pyrethrins	1	0	98
Plantabbs Corp. (1)	Malathion	1	0	113
	N-Octylbicycloheptene dicarboximide	1	0	103
B. G. Pratt Division, Gabriel Chemicals Ltd. (27)	Captan	1	0	101
	Carbaryl	3	0	102
	Chlordane	2	0	101
	Copper	2	0	98
	2,4-D+2-(2-methyl-1,4- chlorophenoxy propi- onic acid+dicamba	2	0	103
	Diazinon	1	0	118
	Dimethoate	3	0	103
	Folpet	1	0	101
	Kelthane	3	0	103
	Lindane	1	0	100
	Malathion	3	0	96
	MetaSystox R	1	0	103
	Methoxychlor	2	0	98
	N-Octylbicycloheptene dicarboximide	2	0	99
	Piperonyl butoxide	3	0	104
	Prometone	1	0	107
	Pyrethrins	4	0	105
	Resmethrin	2	0	110
	Rotenone	1	0	98
	Sulfur	1	0	100
Ralston Purina Co. (12)	Baygon	1	0	125
	Captan	1	0	101
	Carbaryl	3	0	110
	Chlordane	1	0	108
	Diazinon	1	0	101
	Dimethoate	1	0	104
	Malathion	5	2	88
	Methoxychlor	3	0	101
	Sulfur	1	0	105
	Zineb	1	0	97
Realex Corp. (2)	2,4-D+dicamba	1	0	121
	Piperonyl butoxide	1	0	110
	Pyrethrins	1	0	90

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Rite-Off Corp. (1)	Resmethrin	1	0	113
	Tetramethrin	1	0	96
Rockland Chemical Co. (3)	Carbaryl	1	0	100
	Ferbam	1	0	103
	Folpet	1	0	110
	Piperonyl butoxide	1	0	105
	Pyrethrins	1	0	104
	Zineb	1	0	99
Safeguard Chemical Corp. (4)	Diazinon	1	0	98
	N-Octylbicycloheptene dicarboximide	4	0	100
	Piperonyl butoxide	3	0	106
	Pyrethrins	2	0	104
Savol Bleach Co. (2)	Alkyldimethylbenzyl- ammonium chloride	1	0	100
	Sodium hypochlorite	1	0	110
Science Products Co. (8)	Ammonium Sulfamate	1	0	101
	DiSyston	1	0	110
	Kelthane	2	0	95
	Maneb	1	0	101
	Methoxychlor	1	0	104
	Thiram	1	0	104
	Zineb	1	0	103
O. M. Scott & Sons, Inc. (2)	2,4-D+dicamba	1	0	128
	Dimethylarsonic acid	1	0	129
Seaboard Labs., Inc. (2)	Methoxychlor	1	0	99
	Rotenone	1	0	108
Seacoast Labs., Inc. (4)	Diazinon	1	0	107
	Kelthane	1	0	102
	Malathion	1	0	97
	Methoxychlor	1	0	99
	Piperonyl butoxide	1	0	92
	Pyrethrins	1	0	95
	Warfarin	1	0	104
The 707 Company (5)	Diazinon	1	0	96
	Malathion	1	0	114
	Methoxychlor	1	0	106
	Methylnonyl ketone	1	0	95
	N-Octylbicycloheptene dicarboximide	1	0	97
	Piperonyl butoxide	2	0	104
	Pyrethrins	2	0	107

Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % Of Claims
Shell Chemical Co. (1)	Di-n-Propylisocincho- merate	1	0	98
	N-Octylbicycloheptene dicarboximide	1	0	100
	Piperonyl butoxide	1	0	111
	Pyrethrins	1	0	100
	Rabon	1	0	103
Swift Chemical Co. (10)	Captan	1	0	101
	Carbaryl	4	0	103
	2,4-D+dicamba+			
	2-(2-methyl-4-chlor- phenoxy) propionic acid	1	0	133
	Diazinon	1	0	101
	Malathion	2	0	105
	Maneb	1	0	117
	Methanearsonate	1	0	102
	Rotenone	1	0	104
	Sulfur	1	0	110
	Zineb	1	0	120
Syndet Products, Inc. (2)	N-Alkyldimethylbenzyl- ammonium chloride	2	0	106
Thuron Industries, Inc. (1)	2,2-Dichlorovinyl- dimethyl phosphate	1	0	101
	N-Octylbicycloheptene dicarboximide	1	0	108
	Piperonyl butoxide	1	0	110
	Pyrethrins	1	0	102
Union Carbide Corporation (4)	N,N-Diethyl-m-toluamide	4	0	105
Velsicol (2)	Chlordane	2	0	100
Virginia Chemical Co. (1)	N-Octylbicycloheptene carboximide	1	0	98
	Piperonyl butoxide	1	0	98
	Pyrethrins	1	0	120
Whitmire Research Labs., Inc. (1)	Diazinon	1	0	120
York Chemical Co. (1)	Diazinon	1	0	100
(263)		409	3	103

Percent of claims deficient: 0.7

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PUBLICATION

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